

TIL'GNER, D.Ye.[Tilgner, Damazy Jerzy], associate prof.; ZAYAS, Yu.K.[Zajac, J., translator]: MALCHENKO, A.L., doktor tekhn. nauk, zasl. deyatel' nauki i tekhniki RSFSR, red.; BZHEZINSKIY, Khropolit[Brzezinski, Hipolit], inzh., nauchnyy red.; VOYKOVA, A.A., red.; KISINA, Ye.I., tekhn. red.

[Organoleptic analysis of food products] Organolepticheskiy analiz pishchevykh produktov. Pod red. A.L.Malchenko, Moskva, Pishchepromizdat, 1962. 387 p. (MIRA 16:5)

1. Danzig Technical College (for Til'gner).
(Food--Analysis)

LITVAK, Izrail' Moiseyevich, doktor tekhn. nauk, prof.; KRASNYUK, G.M.,
inzh., retsenzent; GROKHOVSKIY, A.A., inzh., retsenzent;
IVANOV, P.Ya., inzh., retsenzent; VOYKOVA, A.A., red.; SATAROV,
A.M., tekhn. red.

[Technology and technochemical control of beet sugar manufacture]
Tekhnologiya i tekhnokhimicheskii kontrol' sveklosakharnogo pro-
izvodstva. Moskva, Pishchepromizdat, 1962. 447 p. (MIRA 16:3)
(Sugar manufacture)

KHONIG, P.[Honig, Pieter], red.; GOLOVNYAK, Yu.D., inzh.[translator];
MAKSIMOVA, N.A., inzh. [translator]; ZHIZHINA, R.G., inzh.
[translator]; Prinimali uchastiye: TROYNO, V.P. [translator];
GOROKH, V.N.[translator]; BENIN, G.S., kand. tekhn. nauk, red.;
VOYKOVA, A.A., red.; KISINA, Ye.I., tekhn. red.

[Principles of sugar technology]Printsiipy tekhnologii sakhara.
Pod red. G.S.Benina. Moskva, Pishchepromizdat, 1961. 615 p.
Translated from the English. (MIRA 15:12)
(Sugar manufacture)

ZAYTSEV, Nikolay Vladimirovich, kand. tekhn. nauk; MIKHELEV, A.A.,
prof., retsenzent; ITSKOVICH, Ya.S., inzh., retsenzent;
KOS'MIN, T.F., inzh., retsenzent; VOYKOVA, A.A., red.;
SATAROVA, A.M., tekhn. red.

[Technical equipment for bakeries] Tekhnologicheskoe oborudovanie
khlebozavodov. Izd. 2., perer. i dop. Moskva, Pishchepromizdat,
1961. 554 p. (MIRA 15:12)
(Bakers and bakeries—Equipment and supplies)

ZHUSHMAN, Anatoliy Ivanovich; SINEL'NIKOV, Ivan Dmitriyevich; SHTYRKOVA, Yevgeniya Aleksandrovna; KRAVCHENKO, S.F., retsenzent; TREGUBOV, N.N., retsenzent; BURMAN, M.Ye., red.; VOYKOVA, A.A., red.; SATAROVA, A.M., tekhn. red.

[Manufacture of starch products from corn; cornstarch, sago from cornstarch, pudding starch, and powder starch] Proizvodstvo krakhhmaloproduktov iz kukuruzy; maisovyi krakhmal, sago iz maisovogo krakhmala, pudingovye krakhmal i poroshki. Moskva, Pishche-promizdat, 1962. 187 p. (MIRA 15:6)

(Cornstarch)

ZAYTSEV, Nikolay Vladimirovich, kand. tekhn. nauk; MIKHELEV, A.A.,
prof., retsenzont; ITSKOVICH, Ya.8., inzh., retsenzont;
KOS'MIN, T.F., inzh., retsenzont; VOYKOVA, A.A., red.;
SATAROVA, A.M., tekhn. red.

[Technological equipment of bakeries] Tekhnologicheskoe oboru-
dovanie khlebozavodov. Izd.2., perer. i dop. Moskva, Pishche-
promizdat, 1961. 554 p. (MIRA 15:2)
(Bakers and bakeries--Equipment and supplies)

MAYER-OBERPLAN, M. [Mayer-Oberplan, Maximilian]; MOGILYANSKIY, N.K.,
doktor tekhn.nauk, zaslushennyi deyatel' nauki i tekhniki
[translator]; VOYKOVA, A.A., red.; KISINA, Ye.I., tekhn.red.

[Clarification and stabilization of wines, champagne, and
grape juice] Osvetlenie i stabilizatsiya vina, shampanskogo
i sladkogo soka. Moskva, Pishchepromizdat, 1960. 187 p.
Translated from the German. (MIRA 14:4)

(Wine and wine making) (Grape juice)

SILIN, Pavel Mikhaylovich; SILINA, Nina Pavlovna; VOYKOVA, A.A., red.;
SOKOLOVA, I.A., tekhn.red.

[Chemical control of beet-sugar manufacture] Khimicheskii
kontrol' sveklosekhnarnogo proizvodstva. Izd.3., perer. i dop.
Moskva, Pishchepromizdat, 1960. 266 p.

(MIRA 14:4)

(Sugar manufacture) (Sugar--Analysis and testing)

GEYSS, V. [Geiss, Wilhelm]; TSIMERMAN, S.I. [translator]; MOGILYANSKIY,
N.K., doktor tekhn.nauk, red.; VOYKOVA, A.A., red.; SOKOLOVA,
I.A., tekhn.red.

[Sterile bottling of wine] Steril'nyi rozliv vina. Moskva,
Pishchepromizdat, 1960. 84 p. Translated from the German.
(MIRA 13:10)

(Wine--Sterilization)

LUK'YANOV, Vladimir Venediktovich, doktor tekhn.nauk; VOYKOVA, A.A.,
red.; TARASOVA, N.M., tekhn.red.

[Technology of macaroni production] Tekhnologiya makaronnogo
proizvodstva. Izd.4, perer. Moskva, Pishchepromizdat, 1959.
248 p. (MIRA 13:3)

(Macaroni)

VOYKOVA, A. I.

Chemical Abst.
Vol. 48 No. 6
Mar. 25, 1954
Inorganic Chemistry

(5) 4
Colored complexes of vanadium and hydrogen peroxide.
A. K. Galko and A. I. Voykova. *Zhur. Obshchei Khim.*
2, 1108-10; *J. Gen. Chem. U.S.S.R.* 22, 1149-56(1952).
Colored solns. were prepd. by combining a soln. of 8×10^{-4}
 M NH_4VO_3 and a soln. of $8 \times 10^{-4} M$ H_2O_2 . Color intensi-
ties were measured with the Pulfrich colorimeter at 465 m μ .
Vanadium forms with H_2O_2 (1) in strongly acidic solns., an
intensely colored stable compd. in which the ratio $V:H_2O_2 =$
1:1, and (2) in basic solns. a less intensely colored compd.
with the ratio $V:H_2O_2 = 1:2$. Dissocn. const. of the first
compd. is $K = 3 \times 10^{-4}$. M. O. Holowaty.

11-5-54

GALKINA, G.V.; VOYKOVA, L.L., red.; SOKOLOVA, I.A., tekhn. red.

[Production of table sirups] Proizvodstvo stolovhkh patoch-
nykh siropov. Moskva, Pishchepromizdat, 1960. 56 p.
(MIRA 14:5)

(Sirups)

SOSNINA, A. (Vladivostok); VOYKOVA, R. (Vladivostok)

Noteworthy dates of great technical discoveries. Politskh.
obuch. no.11:94-96 N '59. (MIRA 13:2)
(Scientists)

Voykovskiy, B.A.
VOYKOVSKIY, B.A.;

GALAKTIONOV, A.I.; TRET'YAKOVA, M.I.; CHUDAKOV, A.Ye.

Photometry of charged particle tracks in nuclear emulsions.

Prib.1 tekhn.eksp. no.6:38-42 N-D '57.

(MIRA 10:12)

1.Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Photography, Particle track)
(Photometer)

VOYKOVSKIY, B.A.

VOYKOVSKIY, B.A.; GALAKTIONOV, A.I.; TRET'YAKOVA, M.I.

~~Instrument for measuring lengths and number of gaps in charged~~
particle tracks in nuclear emulsions. Prib.1 tekhn. eksp. no.6:
42-45 N-D '57. (MIRA 10:12)

1. Fizicheskiy institut im. P.N. Lebedeva AN SSSR.
(Photography, Particle track)
(Electronic instruments)

VOYKOVSKIY, B.A.

120-6-8/36

AUTHORS: Voykovskiy, B.A., Galaktionov, A.I., Tret'yakova, M.I.
and Chudakov, A.Ye.

TITLE: Photometering of Tracks Due to Charged Particles in Photographic Emulsions (Fotometrirovaniye sledov zaryazhennykh chastits v fotoemul'sii)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6,
pp. 38 - 42 (USSR).

ABSTRACT: A photometer is described which can be used to determine the density of a track in a photographic emulsion. A photograph of the apparatus is given in Fig.1 and its principles are as follows. The part of the track under investigation is made parallel to the slit of the photometer. Light which passes through the track objective and then the photometer slit is intercepted by the cathode of a photomultiplier. Depending on the density of the track the output of the photomultiplier falls or increases, as the slit is moved along and parallel to the track. The voltage across the photomultiplier load is then amplified by an amplifier and is applied to the plates of an oscilloscope. An automatic device is incorporated which ensures that the track always lies within the slit. The quantity h/H (where h is the maximum density on the axis of the track and H is the background density) was measured for protons and

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Photometering of Tracks Due to Charged Particles in Photographic Emulsions. 120-6-8/36

π -mesons as a function of residual range. Comparing the ranges of protons and π -mesons corresponding to the same value of h/H the ratio of the mass of the protons to that of the mesons could be calculated (for ranges between 520 and 1 100, and 3 800 - 7 000 microns for protons and π -mesons, respectively). Figs. 4 and 6 show curves of h/H as functions of range for protons, π -mesons, and τ -mesons. Using the above method, it also is possible to determine the cross-sectional profile of each track. The area under this curve is denoted by S . The following masses were found for the τ -mesons:

$$m_{\tau} = (1\ 050 \pm 175) m_e \quad (\text{from } h/H \text{ and the range})$$

$$m_{\tau} = (985 \pm 120) m_e \quad (\text{from } S \text{ and the range}).$$

The values for the π -mesons are as follows:

$$m_p/m_{\pi} = 6.4 \pm 0.6 \quad (\text{from } h/H \text{ and the range})$$

$$m_p/m_{\pi} = 6.6 \pm 0.5 \quad (\text{from } S \text{ and the range}).$$

Card2/3

It is found that using the "S method" it is easier to separate singly-charged particles of different nature. A measurement of

Photomicrographing of Tracks due to Charged Particles in Photographic Emulsions. 120-6-8/36

S will also yield Z for relativistic particles. V. Karpova and V. Sachkov carried out the measurements on the instrument. There are 6 figures and 7 non-Slavic references.

ASSOCIATION: Institute of Physics imeni P.N. Lebedev Ac.Sc. USSR.
(Fizicheskii Institut im. P.N. Lebedeva AN SSSR)

SUBMITTED: May 21, 1957

AVAILABLE: Library of Congress.

Card 3/3

VOYKOVSKIY, B.A.

120-6-9/36

AUTHORS: Voykovskiy, B.A., Galaktionov, A.I. and Tret'yakova, M.I.

TITLE: An Instrument for Measuring the Length and Number of Gaps in Tracks due to Charged Particles in Photographic Emulsions.
(Pribor dlya izmereniya dliny i chisla razryvov na sledakh zaryazhennykh chastits v fotoemul'siyakh)

PERIODICAL: Priory i Tekhnika Eksperimenta, 1957, No.6,
pp. 42 - 45 (USSR).

ABSTRACT: A gapmeter is described which can be used to measure simultaneously the length of a given part of a track due to a charged particle, the number and the total length of gaps (of given length or greater than a given length) between the grains of the emulsion. Curves are given of the differential and integral gap length as functions of range for protons and π -mesons in NIKFI-R emulsions. The instrument works as follows. The microscope stage on which the emulsion is placed can be moved by means of an electric motor. To begin with, the track under investigation is lined up parallel to the direction of motion of the microscope stage. The movement of the stage is transformed into photoelectric impulses which after amplification and shaping are fed into a counter. In one of the eye pieces of the microscope there is a thin wire perpendicular to the track. When the beginning of the part of the track under

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120-6-9/36

An Instrument of Measuring the Length and Number of Gaps in Tracks Due to Charged Particles in Photographic Emulsions.

investigation coincides with the wire the observer presses a button which switches in the counter which measures the total length of the track. When the wire coincides with the beginning of a gap the observer switches in the counter which measures gap length and automatically counts the number of gaps. After each 100 μ of the track the motor automatically stops and the observer makes a note of the readings of the counters. The motor has a variable speed which can be regulated by the observer e.g. when he comes towards the end of the gap he can slow down the motor. Curves are given of gap length L as a function of range for protons and π -mesons, the total length of the gaps as a function of range for π -mesons, protons and τ -mesons, and the total number of gaps as a function of range for π -mesons, protons and τ -mesons. The following values were obtained:

$$m_p/m_{\pi} = 6.1 \pm 0.3 \quad (\text{from } L \text{ and range})$$

$$m_p/m_{\pi} \approx 6.5 \quad (\text{from the total length of gaps and range})$$

$$m_{\tau}/m_p \quad 0.5 - 0.6 \quad (-\text{ditto-})$$

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120-6-9/36
An Instrument of Measuring the Length and Number of Gaps in Tracks
due to Charged Particles in Photographic Emulsions.

A. Nomofilom and Ye.A. Brik carried out the measurements on
the gap-meter. There are 6 diagrams and 6 references, 2 of which
are Slavic.

ASSOCIATION: Physical Institute imeni P.N. Lebedev Ac.Sc. USSR.
(Fizicheskiy Institut AN SSSR)

SUBMITTED: April 26, 1957.

AVAILABLE: Library of Congress.

Card 3/3

VOYKU, Dumitru, shofer

For a long overhaul life of an automobile. Akust. zhur. 6 no.2:61
'60. (MIRA 13:8)

1. 8-ya avtobaza IRTA (Bukharestkoye sotsialiticheskoye pred-
priyatiye telekonstruktsiy).

(Automobiles—Maintenance and repair).

Voykulesku, ~~E. P.~~
RUMANIA / Virology. Human and Animal Viruses

E-2

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 487

Author : Ionescu-Mikheieshti, Mark'ovich, Ganchevich, Kleyn, Voykulesku,
Olaru

Inst : Not Given

Title : A Study of the Poliomyelitis Epidemic in Bucharest.

Orig Pub : Studii si cercetari in framicrobiol., microbiol., si parazitol.
Acal. RPR, 1956, 7, No 3-4, 267-293

Abstract : A review of poliomyelitis epidemiology

Card : 1/1

STOYCHESKU, K. [Stoichescu, K.]; ZIRRA, A.M.; VOYKU, L.A. [Voicu, L.A.]
(Rumyniya)

Comparative action of oxygen and carbon dioxide on some metabolic
and enzymatic processes of the liver. Vop. kur., fizioter. i lech.
fiz. kul't. 26 no.3:227-229 My-Je '61. (MIRA 14:7)

1. Bukharestskogo instituta kurortologii i fizioterapii.
(OXYGEN---PHYSIOLOGICAL EFFECT)
(CARBON DIOXIDE---PHYSIOLOGICAL EFFECT)

USSR / Human and Animal Morphology, Normal and Pathologic -- Pathologic Anatomy S-7

Abs Jour: Ref Zhur-Biol., No 13, 1958, 59944

Author : Voykulesku, V.; Voykulesku, I.; Goldenberg, M.

Inst : Not given

Title : Concerning Two Cases of Buccolingual Facial Apraxia

Orig Pub: Rumynsk. med. obozrenie, 1957, No 1, 64-65 Per-
vod iz zh. "Neurol. psikiatr. si neurochirurg.,"
1956 No 1

Abstract: No abstract

Card 1/1

USSR / Human and Animal Morphology, Normal and Pathologic -- Pathologic Anatomy S-7

Abs Jour: Ref Zhur-Biol., No 13, 1958, 59944

Author : Voykulesku, V.; Voykulesku, I.; Goldenberg, M.

Inst : Not given

Title : Concerning Two Cases of Buccolingual Facial Apraxia

Orig Pub: Rumynsk. med. obozrenie, 1957, No 1, 64-65 Per-
vod iz zh. "Neurol. psihiatr. si neurochirurg.,"
1956 No 1

Abstract: No abstract

Card 1/1

VOYLENKO, I. P.

VOYLENKO, I.P., kranovshchik

My work methods with a gantry crane. Rech.transp. 16 no.9:30-40

S '57.

(MIRA 10:12)

1.Kiyevskiy port.

(Cranes, derricks, etc.)

VOYLENKO, V. N.:

VOYLENKO, V. N.: "An evaluation of approaches to the heart in adhesive pericarditis in connection with the surgical anatomy of the anterior mediastinum." L'vov State Medical Inst. L'vov, 1956. (Dissertations for the Degree of Candidate in Medical Sciences).

SO: Knizhnyy Letopis' No. 22, 1956

VOYLENKO, YE.I.

3-58-4-25/34

AUTHOR: Abramov, A.A. and Ye.I. Voylenko, Candidates of Juridical Sciences

TITLE: Replies to Questions of Readers (Otvety na voprosy chitateley) On Competitions for Replacements in Staff Offices of the Professorial and Teaching Body (O konkursakh na zameshcheniye shtatnykh dolzhnostey professorsko-prepodavatelskogo sostava)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, # 4, pp 67 - 69 (USSR)

ABSTRACT: The competitive order of filling vacant posts of heads of chairs, professors and dotsents was established in 1936. In 1953, it was further developed when, except in the pedagogical and teacher institutes, periodical competitions were introduced for filling the positions of professors, etc.

Competitions for filling vacant positions may be announced at any time. The vacant positions of assistants and instructors may be filled without competition if the ministry of department exercising control over the given vuz details persons for these positions. After 3 years, a competition is announced for these positions on general conditions.

Persons elected by competition as heads of chairs of social sciences have to be approved by the Administration for Teaching

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3-58-4-25/34

Replies to questions of Readers. On Competitions for Replacements
in Staff Offices of the Professorial and Teaching Body

Social Sciences of the USSR Ministry of Higher Education.

Persons elected by competition may be discharged before
the expiration of the 5 year term if they proved to be unfit.

The article contains a number of other rules governing the
employment and discharge of the teaching personnel.

AVAILABLE: Library of Congress

Card 2/2

AUTHORS: Abramova, A.A., and Voylenko, Ye.I., Candidates of Juridical Science SOV/3-58-11-33/38

TITLE: Payment for the Work of Professors and Instructors of Higher Educational Institutions (Ob oplate truda professorsko-prepodavatel'skogo sostava vysshikh uchebnykh zavedeniy)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 11, pp 82 - 85 (USSR)

ABSTRACT: The article's first part deals with the system by which professors and instructors of vuzes are paid. Workers in science and higher school instructors are paid by the hour, but this system includes also the monthly form of payment. To increase the quality of training and scientific-research work at the higher school, and in order to win over highly-qualified professors and instructors, the staff salary system (shtatno-okladnaya sistema) was introduced. It provides an average 6-hour working day for every vuz instructor. Minimal and maximum teaching loads were established, depending on the instructor's academic degree - on the average from 2.25 to 3.5 hours per day. The remaining part of the working day was assigned to scientific and methodical work. In 1956/57 the norms of the teaching load were abolished, and

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Payment for the Work of Professors and Instructors of Higher Educational Institutions

SOV/3-58-11-33/38

it was left to the directors to determine the teaching load of professors and instructors within the limits of the 6-hour working day. At present, the amount of an instructor's salary depends on the position occupied by him, on his scientific degrees, academic rank and length of service. The article contains particulars on the pay drawn by vuz directors, their substitutes and deans. To encourage persons possessing a scientific degree and working in their specialty in industrial enterprises, agriculture, transportation, building sites, etc, a bonus is also paid. It amounts to 1,000 rubles monthly for doctors of sciences and 500 rubles for candidates of sciences. The second part outlines the order by which vuz workers are awarded a bonus for the successful solution of scientific problems. The third part settles the question of holding more than one office. It gives workers of scientific institutions permission to work in vuzes, and vuz workers - in scientific institutions and industry. The fourth part explains how the length of service in scientific-pedagogical work is computed for the purpose of fixing the official salary.

Card 2/2

VOYLOCHNIKOV A. T.

USSR/Medicine - Mosquitoes Bird Nests

May / Jun 49

"Bird Nests as Breeding Grounds for Mosquitoes (Phlebotomus)," P. A. Petrishcheva, V. V. Gubar¹, A. T. Voylocknikov, I. M. Grokhovskaya, K. M. Sokolva, O. Ya. Khodova, A.B. Gasparova, Div of Parasitol and Med Zool, 1st of Epidemiol and Microbiol, Acad Med Sci USSR, 2¹/₂ pp

"Zool Zhur" No 3

Investigated 113 nests of nine species of birds and found only eight contained evidence of mosquitoes. In these eight nests found eight larva, 25 pupa, and 136 pupa cases, indicating that nests are not one of more frequently used breeding places. Dir, Div of Parasitol and Med Zool: Acad Ye. M. Pavlovskiy. Dir, Inst of Epidemiol and Microbiol: Prof V. D. Timakov.

PA 151755

VOYLOKOV, M.I.

Method of estimating from above the number of periodic solutions
to an autonomous system of two differential equations. Usp.mat.
nauk 16 no.3:159-162 My-Je '61. (MIRA 14:8)
(Differential equations)

VOYLOKOV, M.I.

Sufficient conditions for asymptotic stability of an infinite point
in the system $\dot{x} = y - F(x)$, $y = -g(x)$. Usp.mat.nauk 16 no.3:163-
170 My-Je '61. (MIRA 14:8)

(Aggregates) (Functional analysis)

VOYLOKOV, M.I.

Massera's method for proving the uniqueness of a limiting cycle.
Izv. vys. uch.zav.; mat. no.5:22-28 '62. (MIRA 15:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.
(Continuity) (Curves)

AUTHOR: Voylovkov, M.I. (Moscow) 39-44-2-6/10

TITLE: Sufficient Conditions for the Existence of Exactly n Limit Cycles for the System $\frac{dx}{dt} = y$, $\frac{dy}{dt} = F(y) - x$
 (Dostatochnyye usloviya sushchestvovaniya rovno n predel'nykh tsiklov u sistemy $\frac{dx}{dt} = y$, $\frac{dy}{dt} = F(y) - x$)

PERIODICAL: Matematicheskiy Sbornik, 1958, Vol 44, Nr 2, pp 235-244 (USSR)

ABSTRACT: Under the supposition that $F(y)$ is continuous and guarantees the uniqueness of the solution the author succeeds by rather simple geometric considerations in finding conditions in the phase plane which $F(y)$ must satisfy in order that the considered system possesses exactly n boundary cycles. For the desired function $F(y)$ a geometric method of construction is given. The paper was written by using methods of the qualitative theory under guidance of V.V. Nemytskiy. There are 5 references, 3 of which are Soviet, 1 American, and 1 Italian.

SUBMITTED: November 23, 1956

AVAILABLE: Library of Congress

Card 1/1 1. Conformal mapping 2. Geometric equations 3. Topology

16.3400

67500

~~16(1), 16(2)~~

SOV/155-59-1-3/30

AUTHOR: Voylov, M.I.

TITLE: The Determination of the Number of Limit Cycles of the System
 $\dot{x} = X(x,y), \dot{y} = Y(x,y)$

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki,
 1959, Nr 1, pp 18 - 23 (USSR)

ABSTRACT: The system mentioned in the title is investigated in a finite domain G , where it is assumed that the right sides are continuously differentiable and that the distance of an arbitrary periodic solution from the boundary of G and from the set of singular points is greater than a certain $\epsilon > 0$. The author proposes a numerical method which permits to obtain the number of limit cycles and their probable situation if all limit cycles are rough. The method bases on the successive application of the "A-tables" according to V.V. Nemytskiy [Ref 1] and can be used also for the determination of multiple cycles. The method is described without proof. The author mentions A.A. Andronov, and Ye.A. Leontovich. There are 2 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova
 (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: July 29, 1958

Card 1/1

16(1)

AUTHOR: Voylov, M.I.

SOV/155-58-3-8/37

TITLE: Numerical Method for the Qualitative Investigation of Rough Systems (Chislennyy metod kachestvennogo issledovaniya grubyykh sistem)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 3, pp 40-45 (USSR)

ABSTRACT: The author proposes a method partly numerical partly graphical which permits to determine the components of the region of definition according to A.A.Andronov and S.E.Khaykin [Ref 1] for a rough system of differential equations

$$(1) \quad \dot{x} = X(x,y), \quad \dot{y} = Y(x,y)$$

with continuously differentiable right sides. The method consists in a "touching" of the limit cycles and the separatrices of (1). The method is carried out step by step, where it is not sure

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Numerical Method for the Qualitative Investigation
of Rough Systems

SOV/155-58-3-8/37

whether in finitely many steps a final result can be obtained.
The author thanks Professor V.V.Nemytskiy.
There are 2 figures, and 2 references, 1 of which is Soviet,
and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova
(Moscow State University imeni M.V.Lomonosov)

SUBMITTED: March 7, 1958

Card 2/2

24173

S/042/61/016/003/002/005

0111/0444

16.3409

AUTHOR: Voylov, M. S.

TITLE: A method for an upper estimation of the number of periodic solutions of an autonomous system of two differential equations.

PERIODICAL: Uspekhi matematicheskikh nauk, v.16, no.3, 1961, 159-162.

TEXT: Theorem 1: Let the system

$$\begin{aligned} \dot{x} &= X(x,y) \\ \dot{y} &= Y(x,y) \end{aligned} \quad (1)$$

be defined in a domain G of the phase plane.

1.) F(x,y) being a function defined in G, let F(x,y), X(x,y) and Y(x,y) have continuous second-order derivatives in G.

2.) The set of points in G which satisfy the equation $(FX)'_x + (FY)'_y = 0$

can be represented as the union of two disjoint sets T,S defined by the following properties: $(FX)'_x + (FY)'_y$ does not change its sign along an integral curve of (1) in passing through a point of T, and T does not fill any circle in G. S is represented by a class of curves,

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24173
S/042/61/016/003/002/005
C111/C444

A method for an upper ...

either being closed or having its endpoints in the same component of the boundary of G if the curve goes to infinity, one supposes its endpoint lying on the point at infinity).

No point of S satisfies the equation

$$\{(FX)'_{xx} + (FY)''_{xy}\}X + \{(FX)''_{xy} + (FY)''_{yy}\}Y = 0 \quad (2)$$

G is decomposed by S into a set H of finitely connected but not simply connected domains and into a set of simply connected domains.

Then the number of the periodic solutions of system (1) does not exceed the sum of the connectivity numbers of the domains of H minus the number of these domains. If H contains infinitely many domains, the number of periodic solutions is at most countable.

Theorem 2: If in a certain neighborhood of a not rough periodic solution (i.e. a solution along which $\int_0^T (X'_x + Y'_y) dt = 0$, T being the period)

$$(FX)'_x + (FY)'_y \geq 0$$

then $(FX)'_x + (FY)'_y \leq 0$ along this periodic solution.

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Conclusion:

1.) Let $F(x,y)$, $X(x,y)$, $Y(x,y)$ have continuous second order derivatives in a domain G .

2.) $(FX)'_x + (FY)'_y \geq 0$

3.) There exists a connected set, containing all singular points of G and having non-void intersections with all components of \hat{G} (boundary of G). Let $(FX)'_x + (FY)'_y \neq 0$ for all points of this set which are not iden-

tical with the singular points and do not lie on \hat{G} (concerning the point at infinity assume the same as above). Then all periodic solutions in G are rough.

There is 1 Soviet-bloc reference and 4 non-Soviet-bloc references. The two references to English-language publications read as follows: J. Stoker, *Nelineynyye kolebaniya v mekhanicheskikh i elektricheskikh sistemakh* [Nonlinear vibrations in mechanical and electric systems] M., IL, 1953; N. Levinson, O. K. Smith, A general equations for relaxation oscillations, *Duke Math. Journ.* 2 (1942), 382 - 403.

SUBMITTED: July 22, 1959

Card 3/3

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S/042/61/016/003/003/005
C111/C444

AUTHOR: Voylovkov, M. S.

TITLE: Sufficient conditions for the asymptotic stability of the point at infinity for the system $\dot{x} = y - F(x)$, $\dot{y} = -g(x)$.

PERIODICAL: Uspekhi matematicheskikh nauk, v.16, no.3, 1961, 163-170.

TEXT: System considered:

$$\dot{x} = y - F(x); \quad \dot{y} = -g(x), \quad (1)$$

Theorem 1: 1.) $g(x)$ and $F(x)$ are continuous and grant the uniqueness of the Cauchy problem for (1).

$$2.) \text{sign } g(x) = \text{sign } x; \quad \int_{-\infty}^{+\infty} g(x) dx = +\infty.$$

3.) there exists a constant c such that for all sufficiently large (small) x

$$F(x) \geq c \quad (F(x) \leq c)$$

$$4.) \int_{-\infty}^{+\infty} g(x) [F(x) - c] dx < 0$$

5.) $F(x)$ is monotone, not increasing for $(x) > x_0$.

Then the point at infinity is asymptotically stable for (1).

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Sufficient conditions ...

In proving (1), the system is transformed to the case where $g(x) = x$. Then theorem 1 is a special case because of the lemma stated below of Theorem 2: 1.) Let $F(x)$ be continuous, granting the uniqueness of the solution of the Cauchy problem for

$$\begin{cases} \dot{x} = y - F(x), \\ \dot{y} = -x; \end{cases}$$

2.) $xF(x) > 0$ for sufficiently large $|x|$.

(2)

3.) $\int_{-\infty}^{\infty} x F(x) dx < 0$

4.) there exists an $A > \frac{1}{2} \int_{-\infty}^{\infty} x F(x) dx$ such that

$$\lim_{x \rightarrow \pm\infty} \frac{\max_{z \in [0, \frac{A}{x^2}]} |F(x+z \operatorname{sign} x)|}{|F(x)|} < \infty;$$

5.) $F(x) = O(\frac{1}{x^2})$

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Sufficient conditions ...

Then the point at infinity is asymptotically stable for the system (2)

Lemma: If $F(x) \rightarrow 0$ for sufficiently large x , $\int_0^{+\infty} xF(x) dx$ converges and

$$\lim_{x \rightarrow +\infty} \frac{\max_{u \in [x, 2x]} F(u)}{F(x)} < \infty, \text{ for a certain } \alpha > 1,$$

then $F(x) = o\left(\frac{1}{x^\alpha}\right), x \rightarrow +\infty$.

Theorem 2 is proved by detailed study of the integral curves of (2) in the phase plane. An example is considered.

The author mentions: A. V. Dragilov, A. F. Filippov.

There are 3 figures and 2 Soviet-bloc references.

SUBMITTED: June 15, 1959

Card 3/3

VOYLOKOV, V.F.

Control room centralization on the Chu-Kashken-Teniz line.
Transp.stroi. 12 no.7:17 J1 '62. (MIRA 16:2)
(Railroads--Electrification) (Remote control)

16.2400

39011

S/140/62/000/004/001/009
C111/C333

AUTHOR: Voylovkov, V. I.

TITLE: On the approximative integration of non-linear differential equations of an oscillating motion with one degree of freedom

PERIODICAL: Vysshnye uchebnyye zavedeniya. Izvestiya. Matematika, 1962, no. 4, 19-32

TEXT: In order to solve

$$\ddot{x} + x + \alpha f(x, \dot{x}) = 0 \quad (1)$$

one searches the solution of the auxiliary equation

$$\ddot{x} + x + \alpha f(x, \dot{x}) + \alpha^n \lambda x = \alpha^{n+1} x, \quad (1.1)$$

with the set-up

$$x = x_0 + \alpha x_1 + \alpha^2 x_2 + \dots + \alpha^i x_i + \dots \quad (1.2)$$

where $n=2$, if in all terms $a_{ij} x^i \dot{x}^j$ of $f(x, \dot{x})$ the sum $i+j$ is even;

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On the approximative integration ...

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C111/C333

otherwise it is $n=1$. After introducing (1.2) into (1.1) and comparing the coefficients at equal powers of α one obtains for the determination of x_0, x_1, x_2, \dots the equations

$$\ddot{x}_0 + x_0 = 0 \quad (1.4)$$

$$\ddot{x}_1 + x_1 = -f_0(x_0, \dot{x}_0) - \lambda x_0 \quad (1.5)$$

etc. Out of (1.4) there follows

$$x_0 = a_0 \cos t + b_0 \sin t. \quad (1.8)$$

Then left hand of (1.5) is expanded in a Fourier series:

$$\begin{aligned} \ddot{x}_1 + x_1 = & -[M_0(a_0, b_0) + \lambda a_0] \cos t - [N_0(a_0, b_0) + \lambda b_0] \sin t - \\ & - \sum_{k=2}^1 (m_{k,1} \cos kt + n_{k,1} \sin kt) \quad (1.9) \end{aligned}$$

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On the approximative integration . . .

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In order x_1 to be periodic, one demands

$$\begin{aligned} M_0(a_0, b_0) + \lambda a_0 &= 0 \\ N_0(a_0, b_0) + \lambda b_0 &= 0 \end{aligned} \quad (1.10)$$

etc. After $x_0, x_1, x_2, \dots, x_{i-1}$ having been determined, one determines x_i out of

$$\ddot{x}_i + x_i = -f_{i-1}(x_0, x_0, \dots, \dot{x}_{i-1}) - \lambda x_{i-1} + x_{i-2}. \quad (1.7)$$

The convergence of the solution thus obtained is proved. The solvability of the system (1.10) with $\omega = \lambda$ is investigated. One shows that the solvability of the corresponding systems at the determination of x_2, x_3, \dots depends on one and the same double-row determinant Δ_1 . It follows that $\Delta_1 \neq 0$ is necessary and sufficient for the existence of a 2π -periodic solution of (1). It is shown that by an analogous method one is also able to calculate forced oscillations

$$\ddot{x} + x + \alpha f(x, \dot{x}) = \varphi(t), \quad (2)$$

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On the approximative integration . . .

S/140/62/000/004/001/009
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where $\varphi(t)$ is periodic. As an example for application one discusses the Duffing equation; one points to the existence of several periodic solutions.

ASSOCIATION: Irkutskiy politekhnicheskii institut (Irkutsk Polytechnical Institute)

SUBMITTED: June 8, 1959

Card 4/4

VOYLOKOV, V.I. (Irkutsk)

Periodic solutions to nonlinear vibrational systems with one
degree of freedom. Izv.vys.ucheb. zav.; mat. no. 1:19-27 '64
(MIRA 17:5)

ACCESSION NR: AP4018046

S/0110/64/000/001/0019/0027

AUTHOR: Voylov, V. I. (Irkutsk)

TITLE: Periodic solutions of nonlinear oscillating systems with one degree of freedom

SOURCE: IVUZ. Matematika, no. 1, 1964, 19-27

TOPIC TAGS: nonlinear differential equation, periodic solution, nonlinear oscillation, subharmonic oscillation, second order differential equation

ABSTRACT: In a previous work (K priblizhennomu integrirvaniyu nelineynykh differentsial'nykh uravneniy kolebatel'nogo dvizheniya s odnoy stepen'yu svobody. Izv. vuzov, Matem., No. 4 (29), 1962), the author showed that the equation

$$\ddot{x} + x + \alpha f(x, \dot{x}) = \varphi(t)$$

has periodic solutions of period 2π and gave a method for obtaining them. This paper applies the method to specific problems. Consider the differential equation

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ACCESSION NR: AP4018046

describing a regenerative receiver under mild conditions

$$\ddot{x} + \omega^2 x - a(1 - x^2)\dot{x} = h \sin t.$$

Certain peculiarities of the receiver's performance may be obtained from this method. It is assumed that the amplitude of the forcing term is small and that the oscillation is close to the principal resonance. The more general equation

$$\ddot{x} + x - a[(1 - x^2)\dot{x} - (\lambda + a)x] = a^2 x + a\lambda_0 \sin t,$$

is studied, where $h = \alpha\lambda_0$ and $\omega^2 = 1 + \alpha a$. This coincides with the previous equation when $\lambda = \alpha$. Consider the equation

$$\ddot{x} + n^2 x - ax^2 = \mu a \cos nt$$

No periodic solution of this equation can be obtained from the theory of quasi-linear systems. I. G. Malkin (Nekotoryye zadachi teorii nelineynykh kolebaniy. GITTL, M., 1956), using another method, found one periodic solution to this equation. The author's method shows that, in general, there can be three periodic

Card 2/3

ACCESSION NR: AP4018046

solutions. The method can also be used to study subharmonic oscillations. The equation

$$\ddot{x} + k^2 x - a_1 x^2 = a_1 \cos \omega t,$$

is discussed. The solution of these problems by the author's method indicates its wide application to the determination of periodic solutions of nonlinear differential equations. Orig. art. has: 68 equations.

ASSOCIATION: none

SUBMITTED: 06Jun61

DATE ACQ: 18Mar64

ENCL: 00

SUB CODE: MM

NO REF SOV: 002

OTHER: 000

Card 3/3

VOYLOKOV, V. I.

Approximate integration of nonlinear differential equations
of a vibrational movement with a single degree. Izv. vys. ucheb.
zav.; mat. no.4:19-32 '62. (MIRA 15:10)

1. Irkutskiy politekhnicheskoy institut.

(Differential equations) (Vibration)

GLADYSHEV, V.P.; SYNKOVA, D.P.; YENIKEYEV, R.Sh.; KUCHERENKO, N.A.; VOYLOKOVA,
V.V.

Electrochemical method of concentration in bismuth analysis. Trudy
Khm. anal. khim. 15:213-223 '65. (MIRA 18:7)

VOYLOSHNIKOVA, A.P.

VOYLOSHNIKOVA, A.P.; KOZLOVSKIY, M.T.; SONGINA, O.A.

Amperometric determination of microgram quantities of zinc and copper.
Zav. lab. 23 no.3:273-276 '57. (MIRA 10:6)

1. Akademiya nauk Kazakhskoy SSR i Kazakhskiy gosudarstvennyy universi-
tet im. S.M. Kirova.
(Conductometric analysis) (Zinc--Analysis) (Copper--Analysis)

"APPROVED FOR RELEASE: 08/09/2001

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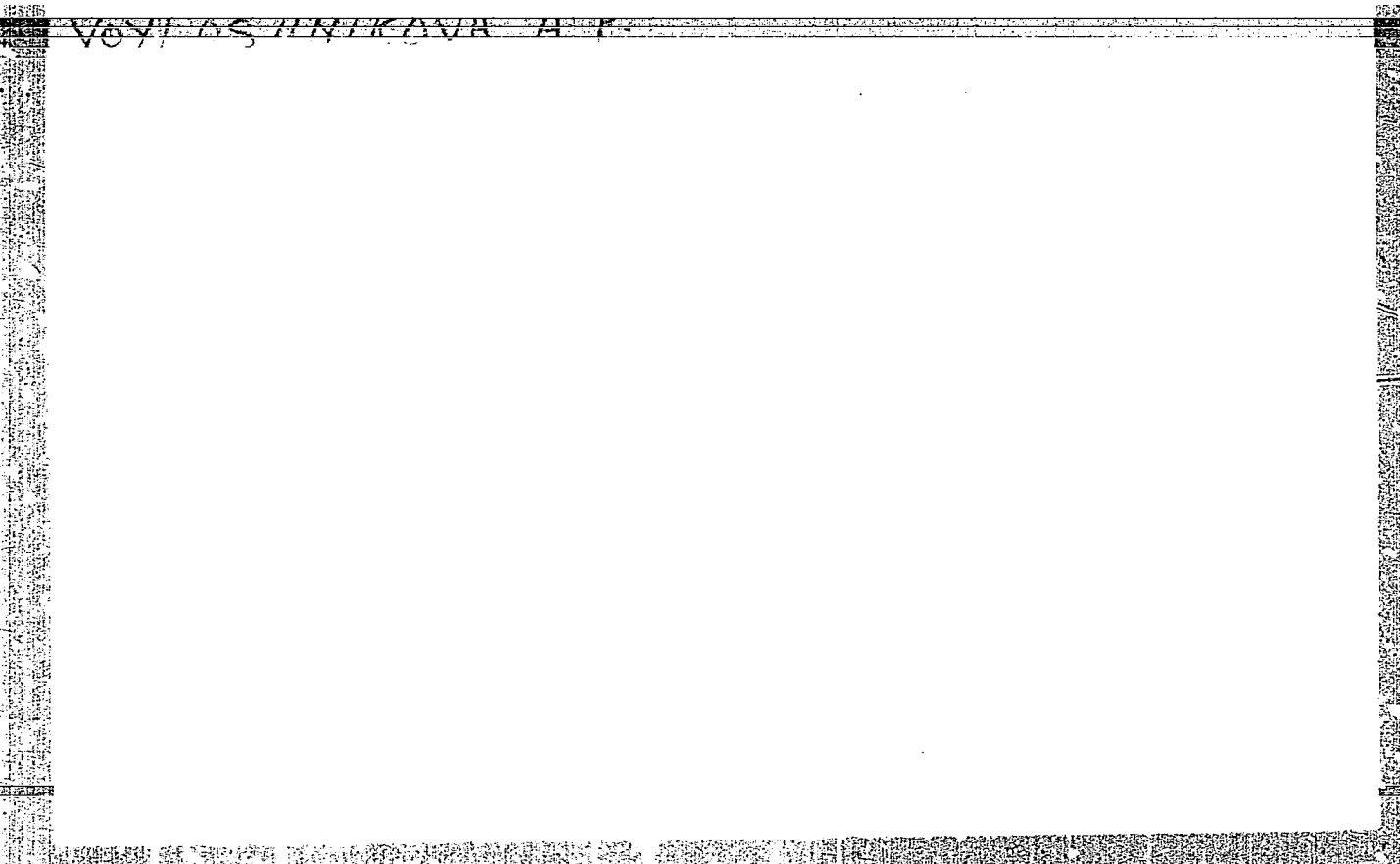
FREYDENZON, Ye.Z.; FREYDENZON, Yu.Ye.; KOTSAR', S.L.; ZATULOVSKAYA, Ye.Z.;
Prinimali uchastiye: KAS'YANOVA, K.S.; MIDRIK, L.Ya.; TIMOFEEVA,
T.D.; KOTEL'NIKOVA, Z.G.; VOYLOSHNIKOVA, A.I.; VASEVA, P.S.;
GNATYUK, P.I.; MYKOL'NIKOV, A.A.; BURKSER, A.Ye.; PONER, D.M.;
OGORODNIKOV, G.K.

Developing an efficient shape for slab ingots. Stal' 25 no.6:
539-543 Je '65. (MIRA 18:6)

1. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Ye. Freydenzon,
Yu. Freydenzon, Kotsar', Zatulovskaya).

"APPROVED FOR RELEASE: 08/09/2001

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APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120002-0"

VOYLOSHNIKOVA, A. P.

Voyloshnikova, A. P.

"Some Anode Methods of Amperometric Titration in the Analysis of Inorganic Substances." Acad Sci Kazakh SSR. Inst of Chemical Sciences. Alma-Ata, 1955. (Dissertation for the Degree of Candidate in Chemical Sciences)

So: Knizhnaya letopis', No. 27, 2 July 1955

5(2), 5(4)
AUTHORS:

Songina, O. A., Voyloshnikova, A. P. SOV/32-24-11-7/37

TITLE:

Amperometric Determination of Arsenic and Selenium by the Direct Iodide Method (Amperometricheskoye opredeleniye mysh'yaka i selena pryamym iodidnym metodom)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 11, pp 1331-1336 (USSR)

ABSTRACT:

Certain observations on the system $J_2/2J^-$ (Refs 1,2) led to the experiments reported here. The influence of the acid concentration upon the course of the titration was very carefully investigated. In all the experiments an ordinary amperometric apparatus (Ref 2) with rotating Pt electrode and mercury standard electrode was used. The arsenic determination was carried out by observing the cathode current in the titration of the free iodine in 9N HCl. The hydrochloric acid must be at least 8N, and when sulfuric acid is used it must be 12N with sodium or potassium chloride added. The influence of copper, Fe^{3+} , and other heavy metals was determined using cadmium amalgam. It was observed that the antimony first oxi-

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SOV/32-24-11-7/37

Amperometric Determination of Arsenic and Selenium by the Direct Iodide Method

dizes the Fe^{2+} and does not react with the iodide; the potential of the $\text{Fe}^{3+}/\text{Fe}^{2+}$ system at this point in 10N hydrochloric acid is +0.48 volt. Mn^{2+} and other electronegative metals do not interfere. In experiments on the selenium determination the reduction of tellurium was investigated and the appearance of a black coating on the Pt electrode was observed. Z. B. Rozhdestvenskaya and students N. Kagarlitskaya and I. Pavlova participated in this work. In order to avoid the reduction of tellurium the titration was carried out at a potential of +1.0 volt (Ref 1) by observing the anode current of the oxidation of the excess iodide ion. It was carried out in 6N acid. Latimer (Ref 4) indicates that the work of Shott, Swift, and Iost on the $\text{SeO}_3^{2-}/\text{Se}$ system with iodide ions and free iodine shows that in such systems equilibrium is quickly established. The selenium determination using the described method must therefore be carried out using a standard curve (and standard solution). In order to determine very trace amounts of selenium (tenths and hundredths of milligrams in 20 ml) the total Se and Te present in the solution must be first separated by ordinary

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SOV/32-24-11-7/37

Amperometric Determination of Arsenic and Selenium by the Direct Iodide Method

methods. There are 1 figure, 4 tables, and 6 references, 3 of which are Soviet.

ASSOCIATION: Kazakhskiy gosudarstvennyy universitet i Institut khimii Akademii nauk Kazakhskoy SSR (Kazakh State University and Institute of Chemistry, AS Kazakh SSR)

Card 3/3

ZAKHAROV, V. A.; VOYLOSHNIKOVA, A. P.; SONGINA, O. A.

Amperometric determination of tri- and pentavalent arsenic in ores.
Zav.lab. 28 no.1:27-28 '62. (MIRA 15:2)

1. Kazakhskiy gosudarstvennyy universitet im. S. M. Kirova i
Institut khimii AN Kazakhskoy SSR.
(Arsenic—Analysis)

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120002-0

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120002-0"

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120002-0

APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001861120002-0"

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.; KOZLOVSKIY, M.T.

Amperometric titration. Part 1. Izv. AN Kazakh SSR Ser. khim. no. 3:
81-101 '49. (MIRA 9:8)

(Titration)

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.

Amperometric determination of arsenic and selenium by the
direct iodide method. Zav.lab. 24 no.11:1331-1336 '58.
(MIRA 11:12)

1. Kazakhskiy gosudarstvennyy universitet i Institut khimii
AN Kazakhskoy SSR.
(Arsenic--Analysis) (Selenium--Analysis) (Iodides)

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.; KOZLOVSKIY, M.T.

Amperometric titration. Report no.5. Determination of calcium and fluorine
by the anodic ferrocyanide method. Izv.AN Kazakh.SSR no.118:69-77 '53.
(MIRA 6:10)

(Volumetric analysis) (Calcium) (Fluorine) (Ferrocyanides)

VOYLOSHNIKOVA, A.P.

Chemical Abst.
Vol. 48 No. 5
Mar. 10, 1954
Analytical Chemistry

Amperometric titration. V. Determination of calcium and fluorine by the anodic ferrocyanide method. O. A. Songina, A. P. Voyloshnikova, and M. T. Koslovskii. *Izv. Akad. Nauk Kazan. S.S.R. No. 118, Ser. Khim., No. 6, 69-77(1953); cf. Zavodskaya Lab. 4(1952).*—The anodic amperometric detn. of Ca and F is described; this can be run in solns. contg. considerable Na salts provided NH_4^+ ions are present. Mg and Al interfere with the detn. of Ca and F by reacting with ferrocyanide and with F. Ca can be detd. only in neutral or AcOH solns.; in H_2SO_4 the detn. is impossible owing to formation of CaSO_4 . Typical titration curves are shown. O. M. Kosolapoff.

MF
7-27-54

SONGINA, O.A.; KOTLYARSKAYA, V.Z.; VOYLOSHNIKOVA, A.P.

Reduction of molybdate and tungstate ions at a platinum micro-
electrode and their amperometric determination. Izv.AN Kazakh.SSR.
Ser.khim. no.8:77-83 '55. (MIRA 9:4)
(Amperometric analysis) (Molybdates) (Tungstates)

VOYLOSHNIKOVA, A. P.

2026 Amperometric determination of thallium
by the anodic bromide method. O. A. Semgina and
A. P. Voyloshnikova (State Univ., Kazakh, USSR).
~~Zh. Anal. Khim.~~ 1984, 39, 11, 19-21. Conditions for the
reduction of Tl^{3+} on a rotating platinum micro-
electrode in H_2SO_4 , acetic acid, and KNO_3 , and the
anodic oxidation of Br^- in H_2SO_4 solutions of various
concentrations are studied. The Br^-/Br_2 system is revers-
ible on the platinum electrode. The use of the
diffusion current of oxidation of Br^- is recommended
for the amperometric determination of Tl . Thallous
ions are oxidized to Tl^{3+} by means of permanganate
or persulphate and the excess of oxidant is removed.
The acidity for the amperometric titration can vary
within wide limits, but 2 N H_2SO_4 as a medium is
recommended. Titration is carried out with 0.001 M
KBr for < 0.1 mg of Tl in 20 ml of solution, with
0.01 M for 0.1 to 1 mg of Tl , and with 0.1 M for
> 1 mg of Tl in 20 ml. The potential used is
+1.3 V vs. the mercury iodide electrode.

G. S. SMITH

PM

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.

Amperometric determination of thallium by the anodic bromide
method. Zav.lab. 22 no.1:19-24 '56. (MLBA 9:5)

1. Kazakhskiy gosudarstvennyy universitet i Institut khimicheskikh
nauk Akademii nauk KazSSR.
(Thallium--Analysis) (Bromides)

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.; KOZLOVSKIY, M.T.

Amperometric titration. Part 2. Izv. AN Kazakh. SSR. Ser. khim. no. 4:
80-89 '51. (MLRA 9:5)

(Conductometric analysis) (Copper) (Iron)

VOYLOSHNIKOVA, A.P.; SONCINA, O.I.A.

Amperometric determination of antimony in the presence of tin.
Zav. lab. 30 no.1:18-20 '64. (MIRA 17:9)

1. Kazakhskiy tekhnologicheskii institut i Kazakhskiy gosudarstvennyy universitet.

SONGINA, O.A.; VOYLOSHNIKOVA, A.P.; KOZLOVSKIY, M.T.

Amperometric titration. Part 3. Amperometric determination of
phosphates. Izv.AN Kazakh.SSR Ser.khim. no.5:3-13 '53.(MLBA 9:5)
(Conductometric analysis) (Phosphates)

VOYLOSHNIKOVA, A. P.
VOYLOSHNIKOVA, A. P.

4

VOYLOSHNIKOVA, A-P.

It

... and unstable was in platinum

Admission

Ms.

VOYLOSHNIKOVA, V. V.

Childrens' Infections Section, Uzbekistan Inst. of Epidemiol. and Microbiol. (-1944-)

"The Natural Immunity Against Diphtheria in Remote Localities of Uzbekistan."

Zhur Mikrobiol., Epidemiol., i Immunobiol., No. 6, 1944.

VOYLOSHNIKOVA, Ye.I. (Irkutsk, 3, Podgornaya, 2, kv.1)

Account of the work of the Conference of Morphologists of
Eastern Siberia and the Far East. Arkh. anat. gist. i embr.
41 no.12:104-109 D '61. (MIRA 15:3)
(MORPHOLOGY.. CONGRESSES)

VOYLOKOV, M.I.: *Cand* Master Phys-Math Sci (diss) -- "Evaluations of the number and multiplicity of limit cycles for an autonomous system of two differential equations, and related problems". Moscow, 1958. 6 pp, (Moscow State U im M.V. Lomonosov), 150 copies (KL, No 1, 1959, 112)

VOYLOKOV, M.I.

Numerical method for qualitative investigation of coarse systems.
Nauch.dokl.vys.shkoly; fiz.-mat.nauki no.3:40-45 '58.

(MIRA 12:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova.
(Differential equations)

VOYLOV, V.Ya.

Reorganization of a factory. Shvein.prom. no.5:39-40 8-0 '62.
(MIRA 15:10)
(Gorkiy—Clothing industry—Management)

PARFENENKO, L.S.; VOYNALOVICH, V.N.

Using straight cuts for blasting in the Krivoy Rog Basin. Met. 1 corner-2.
prom. no. 6:52-53 N-D '63. (MIRA 18:1)

VINKOVATOV, I.A.; YATSKOVSKIY, I.M.; VOYNALOVICH, V.N.

Results of mi : staff sinking using new equipment. Mat. : general.
prom. no.6:77-80 N-D '63. (MIRA 1812)

VOYNALOVICH, V.N., inzh.

New machinery and the efficient distribution of mining
equipment for the deepening of mine shafts. Mat.1 gornorud.
prom. no.5:42-45 S-O '62. (MIRA 16:1)

1. Krivorozhskiy filial Ukrainskogo nauchno-issledovatel'skiy
institut organizatsii i mekhanizatsii shakhtnogo stroitel'stva.
(Shaft sinking—Equipment and supplies)

VOYNALOVICH, V. M., inzh.; PARFENENKO, L. S., inzh.

Increasing labor productivity in boring and blasting operations. Met. i gornorud. prom. no.1:49-51 Ja-F '63.
(MIRA 16:4)

1. Filial Ukrainskogo nauchno-issledovatel'skogo instituta organizatsii i mekhanizatsii shakhtnogo stroitel'stva, Krivoy Rog.

(Boring) (Blasting)

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AUTHORS: Feygel'man, Kh. Ye., Voynalovich, M. V.

TITLE: The Distribution and Combining Forms of Phosphorus in
the Fan-Yagnobskiye Ugli (Coals) (Kharakter raspredeleniya i formy soyedineniy fosfora v fan-yagnobskikh uglyakh)

PERIODICAL: Tr. AN Tadzhik. SSR, 1955, Vol 41, pp 17-25.

ABSTRACT: Data on the origin of phosphorous in coals are scarce and contradictory in the literature. Adherents of a biogenic origin of the phosphorus in coals ground their claims on the high content of this element in coals that are rich in spores. Adherents of the mineral origin believe that the element accumulated in coal during the decomposition of apatite in the presence of organic acids. The present paper presents data on the distribution of phosphorous in coals down the dip and along the strike of coal beds in deposits in the USSR

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The Distribution and Combining Forms of Phosphorus (Cont.)

and in America. In coals in the Donbas, a small content of phosphorus corresponds to a small content of oxygen, a high calorific value, fusibility, and solubility of the coals in organic solvents. A systematic distribution of phosphorus is found in the Fan-Yagnobskiye coals. The element is concentrated in poorly-caking dull coals and is less abundant in well-caking bright coals. Data are given on the content of phosphorus and the combining forms of the element in different types of coal that occur in beds of the Fan-Yagnobskiye deposit. There is no marked relationship between phosphorus content and ash content. The phosphorus content increases during the transition from floor rocks into the coal bed, reaching its highest value in the coal beds. During separation of the coals in heavy liquids (carbon tetrachloride + benzol) into fractions according to specific gravity, it was recognized that an increase in specific gravity is paralleled by an increase in phosphorus content and a decrease in the quantity of transparent material, which are responsible for caking properties. Transparent material forms 91.74 percent of the light fraction (1.25 to 1.30) and the phosphorus ratio is 0.0019 percent. In the fraction 1.50

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The Distribution and Combining Forms of Phosphorus (Cont.)

to 1.60 the quantity of transparent material is 50.0 percent and the phosphorus content increases to 0.1394 percent.

D. A. Ts.

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